

## AMENDMENT TO THE SPECIFICATION

The specification at page 5 is amended as follows:

On Page 5, the paragraph under the title “**DESCRIPTION OF THE DRAWINGS**” should be deleted as noted:

~~Embodiments of the invention will now be described, by way of example, and with reference to the accompanying drawings, in which:~~

Lines 8 through 18 should be amended to read:

Fig. 4 shows the coherence function of the signals in Fig. 3 which is indicative of the frequency spectrum of the signals; Fig. 4a corresponds to the front-left wheel; Fig. 4b to the front-right wheel; Fig. 4c to the rear-left wheel; and Fig. 4d to the rear-right wheel;

Fig. 5 shows an estimated correlation function of the signals in Fig. 3.

Fig. 6 shows the coherence function of the signals in Fig. 3 indicative of the correlation at each frequency; Fig. 6a correlates front-left and rear-left wheels; Fig. 6b correlates front-right and rear-right wheels.

Fig. 7 shows the auto-correlation function of the signals in Fig. 3; Fig. 8 shows the absolute value (upper plot) (Fig. 8a) and the phase value (lower plot) (Fig. 8b) of the ratio of the Fourier transformed wheel speed signals of

On Page 21, line 10 should be amended to read:

state memories, optical and magnetic storage media, ~~and carrier wave signals.~~

On Page 21, line 25, should be amended to read:

All publications ~~and existing systems~~ mentioned in this specification are

In the Abstract, the second to last line, should be amended to read: “vehicle is determined based on ~~said~~ the correlation feature and the wheel spacing”.